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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,245	12/28/2000	Prosenjit Ghosh	042390.P10243	7480

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EXAMINER

CHANG, YEAN HSI

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 04/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/752,245

Applicant(s)

GHOSH, PROSENJIT

Examiner

Yean-Hsi Chang

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1-3, and 5-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Li et al. (US 6,148,906).

Li teaches a device enclosure comprising:

- a thermo-siphon device (80, fig. 8; or 90, fig. 9) embedded in an enclosure skin (not numbered; also see col. 5, lines 42-43) (claim 1)
- wherein the device is a computer device (see col. 5, lines 30-32) (claims 2 and 3)
- wherein the thermo-siphon device is a heat pipe (see col. 5, lines 46-48) (claim 5)
- wherein the thermo-siphon device is a strip (30, fig. 2) of high efficiency conduit material (see col. 4, lines 10-15) (claim 6)

- wherein the thermo-siphon device is an integral part of the skin (see col. 5, lines 42-43) (claim 7)
- wherein the thermo-siphon device is embedded in the skin during the manufacturing process (see col. 5, lines 42-43; forming a back surface is inherently by manufacturing process) (claim 8)
- wherein the skin is fabricated from a metallic material (see col. 4, lines 10-14; and col. 5, lines 47-48) (claim 9)
- wherein the thermo-siphon device is partially embedded in a skin cavity (96, fig. 9) created during fabrication (claims 10, 11 and 12)
- wherein the thermo-siphon device is exposed to an interior of the enclosure (see fig. 8) (claim 13)
- wherein the thermo-siphon device is exposed to a heat sink (element 80 is itself also a heat sink, fig. 8) (claim 14)
- wherein the thermo-siphon device is not an integral part of the skin (fig. 9) (claim 15)
- wherein the thermo-siphon device can be inserted and removed from a skin cavity (fig. 9; see col. 5, lines 53-60) (claim 16)
- wherein the thermo-siphon device is secured to a skin cavity through means selected from the group consisting of a support provided by skin cavity walls,

a thermal epoxy, and an interference fit with the skin cavity (see col. 5, lines 59-60; it is inherent that a support provided by skin cavity walls) (claim 17)

- wherein a metallic plate (cover plate of heat pipe 76, fig. 8) (claim 18).

3. Claim 4 is rejected under 35 U.S.C. 102(e) as being anticipated by Mecredy, III et al. (US 6,118,655).

Mecredy teaches a device enclosure (76, fig.5) comprising a thermo-siphon device (44, fig. 3) embedded in an enclosure skin (figs. 3 and 4), wherein the device is a non-electronic device.

4. Claims 19-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Li et al.

Li teaches a system comprising:

- a housing (68, fig. 8) including a thermo-siphon device (80, fig. 8) embedded in a housing skin (see col. 5, lines 42-43) (claim 19)
- wherein the thermo-siphon device is a heat pipe (see col. 5, lines 46-48) (claim 20)
- wherein the thermo-siphon device is a strip of high efficiency conduit material (30, fig. 2; see also col. 4, lines 10-11) (claim 21)
- wherein the housing is a computer chassis (68, fig. 8) (claim 22)

- wherein the thermo-siphon device is a integral part of the housing skin (see col. 5, lines 42-43) (claim 23).

5. Claims 24-28 rejected under 35 U.S.C. 102(e) as being anticipated by Maruyama et al. (US 6,069,793)

Maruyama teaches a computer chassis comprising:

- a thermo-siphon device (110, fig. 17) embedded in a computer chassis skin (1005, 102, fig. 9; see col. 6, lines 22-23; col. 7, line 44; and col. 9, lines 36-38) (claims 24, 25 and 27)
- wherein the computer chassis is a notebook computer base (1, fig. 9) (claim 26).

Correspondence

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (703) 306-5798. The examiner can normally be reached on 07:30-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular communications and for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-8558.

Yean-Hsi Chang
Patent Examiner
Art Unit: 2835
April 5, 2002



Gerald Tolin
Primary Examiner